WHAT IS CLAIMED IS:

1	1. An apparatus comprising:
2	a UI view definition for a user interface; and
3	a UI view manager operable to dynamically generate the user interface from
4	the UI view definition, wherein the UI view manager instantiates a
5	wrapped control as part of the user interface.
1	2. The apparatus of claim 1 wherein
2	the wrapped control comprises:
3	a control; and
4	a wrapper;
5	and
6	the UI view manager instantiates the wrapped control by providing the control
7	as part of the user interface using the wrapper.
1	3. The apparatus of claim 1 wherein
. 2	the user interface comprises a plurality of controls, the wrapped control being
3	one of the controls.
1	4. The apparatus of claim 1 wherein
2	the UI view manager is operable to dynamically add a new wrapped control to
3	the user interface.
1	5. The apparatus of claim 1 wherein
2	the user interface includes a plurality of controls; and
3	the UI view manager is operable to dynamically remove an existing control of
4	the controls from the user interface.
1	6. The apparatus of claim 1 wherein
2	the UI view manager is operable to dynamically change a function of the
3	wrapped control.
1	7. The apparatus of claim 1 further comprising:
2	a UI container, wherein

3		the user interface is provided within an environment provided by the
4		UI container.
1	8.	The apparatus of claim 1 wherein
2	the UI	view manager provides the wrapped control as part of the user interface
3		by including a user interface element of the wrapped control in the user
4		interface.
1	9.	The apparatus of claim 1 wherein the UI view manager instantiates the
2	wrapped contr	ol as part of the user interface by:
3	providi	ng functionality of the wrapped control to be performed in response to
4		activating a user interface element of the wrapped control in the user
5		interface.
1	10.	The apparatus of claim 1 wherein the wrapped control comprises:
2	code to	implement a control interface, wherein the implementation of the
3		control interface enables the UI view manager to invoke some behavior
4		of the wrapped control by invoking methods of the implementation of
5		the control interface.
1	11.	The apparatus of claim 1 wherein
2	the UI	view manager contains an implementation of a UI view interface and
3	the wra	apped control invokes function of the UI view interface implementation
4		of the UI view interface to communicate with the UI view manager.
1	12.	The apparatus of claim 1 wherein
2	the UI	view manager is operable to dynamically generate the user interface in
3		response to a change to the UI view definition.
1	13.	The apparatus of claim 1 further comprising:
2	a user i	nterface designer for providing a UI view definition.
1	14.	The apparatus of claim 1 wherein
2	the UI	view definition corresponds to an XML file.
1	15.	The apparatus of claim 1 wherein

2	the UI view definition comprises a control definition for the wrapped control,
3	wherein the control definition specifies a user interface element of the
4	wrapped control and a program identifier of code to provide
- 5	functionality of the wrapped control.
1	16. The apparatus of claim 1 wherein
. 2	the UI view definition comprises a panel definition for a panel of the user
3	interface.
1	17. The apparatus of claim 16 wherein
2	the panel definition comprises a control definition for a control to be presented
3	in the panel, wherein the control definition specifies a user interface
4	element of the control and a program identifier of code to provide
5	functionality of the control.
1	18. A method for providing a user interface comprising:
2	generating a user interface from a UI view definition and dynamically editing
3	the user interface,
4	wherein
5	the generating includes creating a wrapper for generating a wrapped
6	control as part of the user interface.
1	19. The method of claim 18 further comprising:
2	dynamically adding a new wrapped control to the user interface.
1	20. The method of claim 18 further comprising:
2	dynamically changing a function of the wrapped control.
1	21. The method of claim 18 further comprising:
2	dynamically removing an existing wrapped control from the user interface.
1	22. The method of claim 18 further comprising:
2	sending a message to the wrapped control via a control interface associated
3	with the wrapper.
1	23. The method of claim 18 further comprising:

1

2

1

2

3

4

5

6

7

1

1

- 2 receiving a message from the wrapped control via a UI view interface 3 associated with a UI view manager.
 - 24. The method of claim 18 wherein creating a wrapper comprises: implementing at least one function of a control interface.
 - 25. The method of claim 24 wherein the at least one function is selected from the set a first function to cause the control to read its internal data, a second function to cause the control to load a property of the control from the UI view definition, a third function to save a property of the control to the UI view definition, a fourth function to return a license key for the control, a fifth function to initialize a property of the control, and a sixth function to receive a notification about a user interface event.
 - 26. The method of claim 18 further comprising:

2 generating a UI view manager by implementing at least one function of an IUI 3 view interface the function selected from the set a first function 4 returning a table of references to business objects, a second function 5 returning a parameter to provide scope of access to a control of the 6 user interface, a third function to register a control for providing alarm 7 information to the control, a fourth function to deregister a control to 8 terminate providing alarm information to the control, a fifth function to 9 create a user interface panel for housing controls, a sixth function to 10 create a user interface panel for adding a control to a user interface 11 panel, a seventh function to remove a panel from the user interface, an 12 eight function to remove a control from a user interface panel, a ninth 13 function to activate or deactive a control, a tenth function to display a 14 text message of a control on a status message panel.

- 27. A computer system comprising:
- a processor;
- a display screen, coupled to said processor;
- 4 computer readable medium coupled to said processor; and
- 5 computer code, encoded in said computer readable medium,

6	configured to cause said processor to dynamically generate a user
7	interface from a UI view definition on the display screen,
8	by virtue of being configured to cause said processor to:
9	use a wrapper to generate a wrapped control as part of the user
10	interface.
1	28. The computer system of claim 24 wherein
2	said processor is further configured to dynamically add a new wrapped control
3	to the user interface.
1	29. The computer system of claim 24 wherein
2	. said processor is further configured to dynamically change a function of the
3	wrapped control.
1	30. The computer system of claim 24 wherein
2	said processor is further configured to dynamically remove an existing
3	wrapped control from the user interface.
1	31. The computer system of claim 24 wherein
2	said processor is further configured to dynamically send a message to the
3	wrapped control via a control interface associated with the wrapper.
1	32. The computer system of claim 24 wherein
2	said processor is further configured to dynamically receive a message from the
3	wrapped control via a UI view interface associated with a UI view
4	manager.
1	33. A computer program product comprising:
2	generating instructions to dynamically generate a user interface from a UI
3	view definition, wherein
4	the generating instructions include using instructions for using a
5	wrapper to generate a wrapped control as part of the user
6	interface;
7	and
8	a computer-readable medium that stores the generating instructions and the

9	using instructions.
1	34. The computer program product of claim 33 further comprising:
2	adding instructions to dynamically add a new wrapped control to the user
3	interface;
4	and wherein
5	the computer-readable medium further stores the adding instructions.
1	35. The computer program product of claim 33 further comprising:
2	changing instructions to dynamically change a function of the wrapped
3	control;
4	and wherein
5	the computer-readable medium further stores the changing instructions.
1	36. The computer program product of claim 33 further comprising:
2	removing instructions to dynamically remove an existing wrapped control
3	from the user interface;
4	and wherein
5	the computer-readable medium further stores the removing instructions.
1	37. The computer program product of claim 33 further comprising:
2	sending instructions to send a message to the wrapped control via a control
3	interface associated with the wrapper;
4	and wherein
5	the computer-readable medium further stores the sending instructions.
1	38. The computer program product of claim 33 further comprising:
2	receiving instructions to receive a message from the wrapped control via a UI
3	view interface associated with a UI view manager;
4	and wherein
5	the computer-readable medium further stores the receiving instructions.
1	39. An apparatus comprising:
2	generating means for dynamically generating a user interface from a UI view
3	definition,

4	wherein
5	the generating means includes using means for using a wrapper for generating
6	a wrapped control as part of the user interface.
1	40. The apparatus of claim 39 further comprising:
2	adding means for dynamically adding a new wrapped control to the user
3	interface.
1	41. The apparatus of claim 39 further comprising:
2	changing means for dynamically changing a function of the wrapped control.
1	42. The apparatus of claim 39 further comprising:
2	removing means for dynamically removing an existing wrapped control from
3	the user interface.
1	43. The apparatus of claim 39 further comprising:
2	sending means for sending a message to the wrapped control via a control
3	interface associated with the wrapper.
1	44. The apparatus of claim 39 further comprising:
2	receiving means for receiving a message from the wrapped control via a UI
3	view interface associated with a UI view manager.
1	45. A system comprising:
2	a wrapped control; and
3	a UI view manager, wherein
4	the UI view manager dynamically provides the wrapped control as part
5	of a user interface.
1	46. A system comprising:
2	a wrapped control comprising:
3	a control; and
4	a wrapper around the control;
5 .	and
6	a UI view manager, wherein

7	the UI view manager uses the wrapper to dynamically provide the
8	control as part of a user interface.
1	47. A signal embodied in a carrier wave comprising:
2	generating instructions to dynamically generate a user interface from a UI
3	view definition, wherein
4	the generating instructions include using instructions for using a
5	wrapper to generate a wrapped control as part of the user
6	interface.
ļ	48. A signal embodied in a carrier wave comprising:
2	a user interface 100 produced by generating instructions to dynamically
3	generate the user interface from a UI view definition, wherein
4	the generating instructions include using instructions for using a
5	wrapper to generate a wrapped control as part of the user
6	interface.
1	